

fers from that of the other three species of the genus reported. All of the latter are diploid with $n = 10$ (Frahm-Leliveld, 1957).

Chromosome counts for taxa of *Camptosema* ($n = 11$) and *Periandra* ($n = 11$) are first reports for these genera.

SUMMARY

Chromosome counts for 17 taxa of Brazilian Leguminosae are reported, these include first reports for 15 species and two genera (*Periandra*, $x = 11$, and *Camptosema*, $x = 11$). *Centrosema coriaceum* ($n = 11$) was found to have a different basic number than has been previously reported for the genus. — BOTANY DEPARTMENT AND THE PLANT RESEARCH INSTITUTE, UNIVERSITY OF TEXAS, AUSTIN.

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A DECADE OF BOTANIZING IN ILLINOIS

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The publication of *Flora of Illinois, Second Edition* (Jones, 1950) brought up to date the vascular plants known to occur in the state and at the same time fortunately paved the way for intensive botanizing throughout the state. As documentation for this renewed research on the Illinois flora, no less than eighty publications have appeared since 1950, many of them recording species previously unreported from Illinois. Efforts have been concentrated throughout the state — in the Chicago region by Steyermark, Swink, and Thieret, in the northwestern section by E. W. Fell, in the east central area by Jones and Ahles, in the west central section by V. Chase, Dobbs, Rexroat, and Winterringer, and in southern Illinois by Voigt and the writer. In addition, Evers has collected extensively throughout the state.

Flora of Illinois (l.c.) enumerated 730 genera and 2202 species. In the subsequent decade, 71 genera and 350 species have been added, representing a thirteen per cent increase in the species total. Of these, 64 are species which are considered native to Illinois. It is these latter that are considered the most significant new finds to Illinois, since they denote natural range extensions. The area of greatest concentration of these newly found Illinois plants is across the extreme southern portion of Illinois, in or near the vicinity of the Shawnee Hills. Fifty-three of the 64 are known from 10 extreme southern counties.

Several of the species fill in previously existing gaps in the distribution, while others mark extensions in the ranges. These are enumerated below according to their distribution.

In addition, two endemics have been described from Illinois since 1950. These are *Aster chasei* G. N. Jones from Marshall, Peoria, and Tazewell counties and *Cyperus grayioides* Mohlenbrock from Mason and Whiteside counties.

NATIVE SPECIES FILLING IN GAPS IN DISTRIBUTION

<i>Asplenium bradleyi</i>	<i>Carex debilis</i>	<i>Vitis lincecumii</i>
<i>Glyceria pallida</i>	<i>Lemna valdiviana</i>	<i>Penstemon alluviorum</i>
<i>Carex austrina</i>	<i>Juncus diffusissimus</i>	<i>Dicliptera brachiata</i>
<i>Carex atherodes</i>	<i>Juncus secundus</i>	<i>Ruellia caroliniensis</i>
<i>Carex caroliniana</i>	<i>Polygonatum biflorum</i>	<i>Eupatorium fistulosum</i>
<i>Carex digitalis</i>	<i>Smilax herbacea</i>	<i>Rudbeckia bicolor</i>
<i>Carex swanii</i>	<i>Pilea fontana</i>	<i>Solidago buckleyi</i>
<i>Carex torta</i>	<i>Draba cuneifolia</i>	<i>Solidago rugosa</i>
<i>Carex texensis</i>	<i>Rubus alumnus</i>	

NATIVE SPECIES EXTENDING RANGE TO THE NORTH

<i>Scirpus koilolepis</i>	<i>Aristolochia nashii</i>	<i>Heliotropium tenellum</i>
<i>Carex oxylepis</i>	<i>Crataegus collina</i>	<i>Gerardia fasciculata</i>
<i>Carex physorhyncha</i>	<i>Prunus mexicana</i>	<i>Galium virgatum</i>
<i>Allium mutabile</i>	<i>Hypericum lobocarpum</i>	

NATIVE SPECIES EXTENDING RANGE TO THE NORTHWEST

<i>Carex decomposita</i>	<i>Arisaema pusilla</i>	<i>Tipularia discolor</i>
<i>Carex striatula</i>	<i>Wolffiella floridana</i>	<i>Gaura filipes</i>
<i>Carex styloflexa</i>	<i>Trillium cuneatum</i>	<i>Solidago boottii</i>

NATIVE SPECIES EXTENDING RANGE TO THE NORTHEAST

<i>Isoetes butleri</i>	<i>Jussiaea leptocarpa</i>	<i>Solidago strigosa</i>
<i>Ranunculus harveyi</i>	<i>Penstemon arkansanus</i>	

NATIVE SPECIES EXTENDING RANGE TO THE EAST

*Talinum calycinum**Viola viarum**Vernonia crinita*

NATIVE SPECIES EXTENDING RANGE TO THE SOUTHEAST

Pilea opaca

NATIVE SPECIES EXTENDING RANGE TO THE SOUTHWEST

*Lycopodium flabelliforme**Trillium erectum**Carex emmonsii**Solidago uliginosa*

NATIVE SPECIES EXTENDING RANGE TO THE WEST

Rubus enslenii

NATIVE SPECIES SHOWING DISJUNCT DISTRIBUTIONS

*Bromus nottowanus**Scleria reticularis**Lipocarpa maculata**Cimicifuga cordifolia*

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NEW COMBINATIONS IN GRASSES¹

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During the course of study of the grass flora of Missouri, the authors have found it necessary to change the categories of several taxa, resulting in the following new combinations:

***Glyceria septentrionalis* Hitchc. var. *arkansana* (Fern.) Steyermark & Kucera, comb. nov., based on *Glyceria arkansana* Fern., *Rhodora* 31: 49. 1929.**

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